**Example: Constructor Overloading**

Save, Compile & Run the Code.

Error = ?. Try and debug the error before proceeding to next step of Java constructor overloading

class Demo{

int value1;

int value2;

/\*Demo(){

value1 = 10;

value2 = 20;

System.out.println("Inside 1st Constructor");

}\*/

Demo(int a){

value1 = a;

System.out.println("Inside 2nd Constructor");

}

Demo(int a,int b){

value1 = a;

value2 = b;

System.out.println("Inside 3rd Constructor");

}

public void display(){

System.out.println("Value1 === "+value1);

System.out.println("Value2 === "+value2);

}

public static void main(String args[]){

Demo d1 = new Demo();

Demo d2 = new Demo(30);

Demo d3 = new Demo(30,40);

d1.display();

d2.display();

d3.display();

}

}

**Example: Constructor Chaining**

class Demo{

int value1;

int value2;

Demo(){

value1 = 1;

value2 = 2;

System.out.println("Inside 1st Parent Constructor");

}

Demo(int a){

value1 = a;

System.out.println("Inside 2nd Parent Constructor");

}

public void display(){

System.out.println("Value1 === "+value1);

System.out.println("Value2 === "+value2);

}

public static void main(String args[]){

DemoChild d1 = new DemoChild();

d1.display();

}

}

class DemoChild extends Demo{

int value3;

int value4;

DemoChild(){

//super(5);

value3 = 3;

value4 = 4;

System.out.println("Inside the Constructor of Child");

}

public void display(){

System.out.println("Value1 === "+value1);

System.out.println("Value2 === "+value2);

System.out.println("Value1 === "+value3);

System.out.println("Value2 === "+value4);

}

}

**Example: Java Copy Constructor**

class JavaExample{

String web;

JavaExample(String w){

web = w;

}

/\* This is the Copy Constructor, it

\* copies the values of one object

\* to the another object (the object

\* that invokes this constructor)

\*/

JavaExample(JavaExample je){

web = je.web;

}

void disp(){

System.out.println("Website: "+web);

}

public static void main(String args[]){

JavaExample obj1 = new JavaExample("BeginnersBook");

/\* Passing the object as an argument to the constructor

\* This will invoke the copy constructor

\*/

JavaExample obj2 = new JavaExample(obj1);

obj1.disp();

obj2.disp();

}

}